

# BELKIN®

## Hi-Speed USB 2.0 Notebook Card

Upgrade your notebook for  
ultra-fast performance

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### User Manual

F5U222vuk1

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## Introduction

### Welcome to Belkin Hi-Speed Connectivity!

Thank you for purchasing the Belkin Hi-Speed USB 2.0 Notebook Card (the Notebook Card).

Now you can upgrade your computer to the latest USB technology. You will be able to take advantage of a host of new Hi-Speed USB 2.0 products!

Connecting your USB 2.0 devices to your computer through the newest USB interface, Hi-Speed USB 2.0, allows them to work faster than ever. Use the Notebook Card to plug in your hard drives, scanners, printers, video cameras, and more. Your current or previous-version USB devices will continue to work as they always have, and in some cases, even better. Follow the simple installation instructions in this manual to get your Notebook Card up and working—then enjoy the speed and convenience of Belkin!

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## Overview

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### Features

- 2 Hi-Speed USB 2.0 ports
- Simultaneous connection capability for low-speed, full-speed, and high-speed devices
- Auto-detection of new devices as they are connected, along with the speed of each device
- Backward-compatibility with USB 1.1 devices
- Full compliance with USB specifications
- Plug-and-Play technology
- No power supply needed with most USB devices

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### Specifications

- Open Host Controller Interface- (OHCI-) compliant (USB 1.1 Host Controller)
- Enhanced Host Controller Interface- (EHCI-) compliant (USB 2.0 Host Controller)
- PCI revision 2.1-compliant
- Current: 2A max.
- USB revision 2.0-compliant
- 3.5mm DC power jack
- Power Supply:
  - Input: 100–240VAC
  - Output: 5VDC 3A
  - Power Supply Polarity

### **Package Contents**

- User Manual
- Installation CD
- Power Supply

### **System Requirements**

- 266MHz Pentium® II
- 32MB RAM
- PC-compatible laptop computer with available 32-bit Type II CardBus slot
- Windows® 98 SE, 2000, Me, or XP operating system

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## Operating System Compatibility

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Operating System	USB 1.x Support	USB 2.0 Support
Windows 98 SE	Yes	Yes
Windows 2000	Yes	Yes
Windows Me	Yes	Yes
Windows XP	Yes	Yes

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Please refer to the section that corresponds to your version of the Windows operating system.

**Note:** *The included power supply is not needed for bus-powered USB devices such as USB keyboards that do not include a built-in USB hub, mice, or self-powered USB devices such as certain hard drives, printers, etc. Bus-powered devices that draw large amounts of power directly from the USB bus such as webcams, keyboards with built-in USB hubs, and certain scanners may require the use of the power supply.*

### Installation Procedure for Windows 98 SE

This installation procedure will install two USB 1.1 OHCI controllers, one USB 2.0 EHCI host controller, and the associated USB root hubs.

**Note:** Do not insert the Notebook Card into your computer until instructed to do so.

1. Insert the F5U222 installation CD into your CD-ROM drive. After a few moments, the main menu should automatically appear.
2. Select "Install USB 2.0 Driver".
3. The setup utility will now install a CardBus eject utility for your USB 2.0 CardBus adapter. Make note of the information provided regarding the eject utility, then click "Next" to continue.
4. After the driver is installed, select "Yes, I want to restart my computer now." Click "Close".
5. After Windows restarts, locate your laptop computer's CardBus slot.
6. Insert the Notebook Card into the slot. Apply pressure as needed until it is fully seated.
7. After inserting the Notebook Card, Windows will detect the "NEC USB Open Host Controller" and the "Add New Hardware Wizard" dialog box will open. Click "Next".
8. Select "Search for the best driver for your device (Recommended)" and click "Next".
9. Uncheck all the boxes and click "Next". Windows will locate the drivers for "NEC USB Open Host Controller". Click "Next". (At this point Windows may prompt you to insert your Windows installation CD. If so, insert the CD into the CD-ROM drive and continue the installation procedure.)

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## Installation

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10. Installation of the “NEC USB Open Host Controller” is now complete. Click “Finish”.
11. The “Add New Hardware” wizard will repeat the installation process for the second OHCI host controller.
12. Repeat steps 7-10.
13. Windows will now detect “Belkin USB 2.0 High Speed Host Controller”. Click “Next”.
14. Windows will locate the required drivers and complete installation of the “Belkin USB 2.0 High Speed Host Controller” and “USB 2.0 Root Hub Device”.

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Installation of the Notebook Card is now complete.





### Verifying Proper Installation (Windows 98 SE)

Check the “Windows Device Manager” to confirm that your Notebook Card has been properly installed.

1. Right-click on “My Computer” and select “Properties”.
2. Select the “Device Manager” tab.
3. After installation of the Belkin USB 2.0 driver you will notice that an additional “Universal Serial Bus Controllers” heading has been added to the device list.
  - a) Click the plus sign (+) next to the original “Universal Serial Bus Controllers” heading. You will find that two “NEC USB Open Host Controller” entries and two “USB Root Hub” entries have been added to the list of devices.
  - b) Click the plus sign (+) next to the new “Universal Serial Bus Controllers” heading. You will find one entry for “Belkin USB 2.0 Hi-Speed Host Controller” and one entry for “USB 2.0 Root Hub Device”.

**Note:** If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.

## Installation

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### Installation Procedure for Windows Me

This installation procedure will install two USB 1.1 OHCI controllers, one USB 2.0 EHCI host controller, and the associated USB root hubs.

**Note:** Do not insert the Notebook Card into your computer until instructed to do so.

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1. Insert the F5U222 installation CD into your CD-ROM drive. After a few moments the main menu will automatically start.
2. Select "Install USB 2.0 Driver".
3. The setup utility will now install a CardBus eject utility for your USB 2.0 CardBus adapter. Take note of the information provided regarding the eject utility, then click "Next" to continue.
4. After the driver is installed, select "Yes, I want to restart my computer now." Click "Close".
5. After Windows restarts, locate your laptop computer's CardBus slot.
6. Insert the Notebook Card into the slot. Apply pressure as needed until it is fully seated.
7. After the Notebook Card is inserted, Windows will detect "NEC USB Open Host Controller (E13+)" and "Belkin USB 2.0 Hi-Speed Host Controller". The required driver support will be automatically installed. No user input is required.
8. After installation of the USB host controllers, the Windows OS will detect "USB Root Hub" and automatically install the required driver support. This step will repeat once again.
9. Restart your computer to complete the installation procedure.

### Verifying Proper Installation (Windows Me)

After installation, check the Windows Device Manager to confirm that the Notebook Card has been properly installed.

1. Right-click on “My Computer” and select “Properties”.
2. Select the “Device Manager” tab.
3. After installation of the Belkin USB 2.0 driver, you will notice that an additional “Universal Serial Bus Controllers” heading has been added to the device list.
  - a) Click the plus sign (+) next to the original “Universal Serial Bus Controllers” heading. You will find that two “NEC USB Open Host Controller (E13+)” entries and two “USB Root Hub” entries have been added to the list of devices.
  - b) Click the plus sign (+) next to the new “Universal Serial Bus Controllers” heading. You will find one entry for “Belkin USB 2.0 Hi-Speed Host Controller” and one entry for USB 2.0 Root Hub Device.

**Note:** If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.



## Installation

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### Installation Procedure for Windows 2000

This installation procedure will install two USB 1.1 OHCI controllers and one USB 2.0 EHCI host controller.

**Important Note:** There are two methods of installing the required USB 2.0 drivers in Windows 2000.

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1. If you have an Internet connection:  
Windows 2000 will allow you to link to the Windows update website and download the most recent version of the Microsoft USB 2.0 support driver. Please proceed to the “Installing the Microsoft Driver” section.
2. If you do not have an Internet connection:  
USB 2.0 drivers will be installed from the Belkin Driver Installation CD. Please proceed to the “Installing the Belkin Driver” section.

#### Installing the Microsoft Driver

1. Locate your computer's CardBus slot.
2. Insert the Notebook Card into the slot. Apply pressure as needed until the Card is fully seated.
3. Turn on your computer.
4. After Windows has finished loading, the installation process will begin.

**Note:** Do not plug any devices into the Notebook Card until driver installation is completely finished.



**Note:** Depending on the speed of your computer, it may take up to 30-60 seconds for the Notebook Card to be detected.

- Windows will now search for drivers for the “Universal Serial Bus Controller” and the “New Hardware Wizard” will start. Click “Next”.
- Select “Search for suitable driver for my device (Recommended)”. Click “Next”.
- Select “Microsoft Windows Update”. Click “Next”.

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**Note:** If the “Microsoft Windows Update” option is not available, double-check your connection to the Internet. If you are having problems connecting to the Internet, proceed to the “Installing the Belkin Driver” section.

- The driver for “Universal Serial Bus Controller” will be located. Click “Next”.
- The driver for “Standard Enhanced PCI to USB Host Controller” will now be installed. Click “Finish”.

The Installation procedure is now complete.

### Verifying Proper Installation (Microsoft Driver)

After installation, check the Device Manager to confirm that the Notebook Card has been properly installed.

- Right-click the “My Computer” icon.
- Select “Properties”.
- Select the “Hardware” tab and click on the “Device Manager” button.
- Click the plus sign (+) next to “Universal Serial Bus Controllers”.



## Installation

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The “Universal Serial Bus Controllers” list will now include two “NEC USB Open Host Controller” entries, two additional USB “Root Hub” entries, one “Standard Universal PCI to USB Host Controller” entry, and one “USB 2.0 Root Hub Device” entry.

**Note:** *If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.*

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### Installing the Belkin Driver

**Note:** *Do not insert the Notebook Card into your computer until instructed to do so.*

1. Insert the F5U222 installation CD into your CD-ROM drive.  
After a few moments the main menu will automatically start.
2. Select “Install USB 2.0 Driver”.
3. After the driver is installed, select “Yes, I want to restart my computer now.” Click “Close”.
4. After Windows restarts, locate your laptop computer’s CardBus slot.
5. Insert the Notebook Card into the slot. Apply pressure as needed until it is fully seated.

### Installation Procedure for Windows 2000

**Note:** Do not plug any devices into the Notebook Card until driver installation is completely finished.

**Note:** Depending on the speed of your computer, it may take up to 30-60 seconds for the Notebook Card to be detected.

6. After the Notebook Card is inserted, all required drivers will be automatically installed. After the installation is complete, you may be prompted to click “Finish” and to restart your computer.

#### Verifying Proper Installation (Belkin Driver)

After installation is complete, check the Windows Device Manager to confirm that all components of the Notebook Card have been properly installed.

1. Right-click on the “My Computer” icon.
2. Select “Properties”.
3. Select the “Hardware” tab and click on the “Device Manager” button.



## Installation

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4. After installation of the Belkin USB 2.0 driver, you will notice that a second “Universal Serial Bus Controllers” heading has been added to the device list.
- a) Click the plus sign (+) next to the original “Universal Serial Bus Controllers” heading. You will find that two “NEC USB Open Host Controller” entries and two “USB Root Hub” entries have been added to the list of devices.
  - b) Click the plus sign (+) next to the new “Universal Serial Bus Controllers” heading. You will find one entry for “Belkin USB 2.0 Hi-Speed Host Controller” and one entry for “USB 2.0 Root Hub Device”.

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**Note:** *If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.*





### Installation Procedure for Windows XP

**Important Note:** If you have already upgraded to Windows XP Service Pack 1, support for your Notebook Card is already installed on your computer. If you have not upgraded to Windows XP Service Pack 1, or if you wish to use the Belkin driver, proceed to the “Installing Belkin Driver” section.

#### Using the Windows XP Service Pack 1 Driver

This installation procedure will install two USB 1.1 OHCI controllers and one USB 2.0 EHCI host controller.

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1. Locate your computer's CardBus slot.
2. Insert the Notebook Card into the slot. Apply pressure as needed until the Card is fully seated.
3. Turn on your computer.
4. When Windows restarts, the Notebook Card will be detected and drivers for the two USB OHCI host controllers and the EHCI host controller will be automatically installed. Installation is now complete.

#### Verifying Proper Installation (Microsoft Driver)

After installation, check the Device Manager to confirm that the Notebook Card has been properly installed.

1. Right-click on “My Computer”.
2. Select “Properties”.
3. Select the “Hardware” tab and click on the “Device Manager” button.
4. Click the plus sign (+) next to “Universal Serial Bus Controllers”



## Installation

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The “Universal Serial Bus Controllers” list will now include two “NEC USB Open Host Controller” entries, two additional “USB Root Hub” entries, one “Standard Universal PCI to USB Host Controller” entry, and one “USB 2.0 Root Hub Device” entry.

**Note:** If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.

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### Installing the Belkin Driver

**Note:** Do not insert the Notebook Card into your computer until instructed to do so.

1. Insert the F5U222 installation CD into your CD-ROM drive. After a few moments the main menu will automatically start.
2. Select “Install USB 2.0 Driver”.
3. After the driver is installed, select “Yes, I want to restart my computer now.” Click “Close”.
4. After Windows restarts, locate your laptop computer’s CardBus slot.
5. Insert the Notebook Card into the slot. Apply pressure as needed until it is fully seated.

**Note:** Do not plug any devices into the Notebook Card until driver installation is completely finished.

**Note:** Depending on the speed of your computer, it may take up to 30-60 seconds for the Notebook Card to be detected.

6. Drivers for the “Belkin USB 2.0 Hi-Speed Host Controller” will now be located.
7. Installation of the “Belkin USB 2.0 Hi-Speed Host Controller” will now be completed.
8. Windows will now detect the “USB 2.0 Root Hub Device”.
9. Drivers for the “USB 2.0 Root Hub Device” will now be located.
10. Installation of the “USB 2.0 Root Hub Device” will now be completed.

The installation procedure is now complete.

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### Verifying Proper Installation (Belkin Driver)

After installation is complete, check the Windows Device Manager to confirm that all components of the Notebook Card have been properly installed.

1. Right-click on “My Computer”.
2. Select “Properties”.
3. Select the “Hardware” tab and click on the “Device Manager” button.
4. After installation of the Belkin USB 2.0 driver, you will notice that a second “Universal Serial Bus Controllers” heading has been added to the device list.
  - a) Click the plus sign (+) next to the original “Universal Serial Bus Controllers” heading. You will find that two “NEC USB Open Host Controller” entries and two “USB Root Hub” entries have been added to the list of devices.
  - b) Click the plus sign (+) next to the new “Universal Serial Bus Controllers” heading. You will find one entry for “Belkin USB 2.0 Hi-Speed Host Controller” and one entry for “USB 2.0 Root Hub Device”.

## Installation

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**Note:** If your computer features built-in USB ports, or if you have other USB PCI controller cards installed, you will see additional USB controller and root hub entries in the Device Manager list.

The installation procedure is now complete.

### Installing a Hi-Speed USB 2.0 Hub

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**Note:** During installation of the Hi-Speed USB 2.0 Notebook Card driver, a Hi-Speed USB 2.0 hub driver is also installed. For instructions regarding the installation of your Hi-Speed USB 2.0 hub, consult the documentation included with your hub

### FCC Statement

#### DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY


We, Belkin Corporation, of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product:

**F5U222vuk1** to which this declaration relates:


Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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### CE Declaration of Conformity



We, Belkin Corporation, declare under our sole responsibility that the F5U222, to which this declaration relates, is in conformity with Generic Emissions Standard EN 55022:1998 Class B, EN50081-1 and with Generic Immunity Standard EN50082-1 1992.



### Belkin Corporation Limited Lifetime Product Warranty

Belkin Corporation warrants this product against defects in materials and workmanship for its lifetime. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

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Disposal of Waste Equipment by Users in Private Households in the European Union:  
For more information, go to [www.belkin.com/environmental](http://www.belkin.com/environmental)

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